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G01N 21/47, 21/25W. [US/US]; 220 Rivers Drive, Lake Bluff, IL 60044 (US).  
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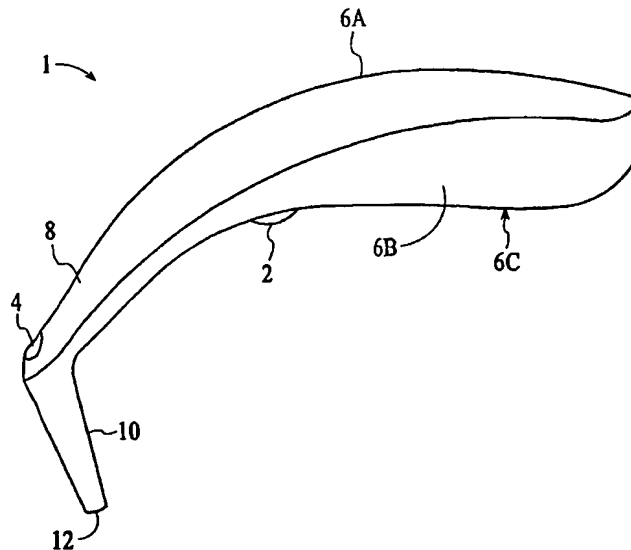
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IE, IT, LU, MC, NL, PT, SE, SI, SK, TR).(30) Priority Data:  
10/081,879 21 February 2002 (21.02.2002) US(71) Applicant (*for all designated States except US*): **LJ LAB-**  
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ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: MINIATURIZED SYSTEM AND METHOD FOR MEASURING OPTICAL CHARACTERISTICS



(57) Abstract: A miniaturized spectrometer/spectrophotometer system and methods are disclosed. A probe tip (10) including one or more light sources and a plurality of light receivers (12) is provided. A first spectrometer system (6A) receives light from a first set of the plurality of light receivers. A second spectrometer system (6B) receives light from a second set of the plurality of light receivers. A processor, wherein the processor receives data generated by the first spectrometer system and the second spectrometer system, wherein an optical measurement of a sample under test is produced based on the data generated by the first and second spectrometer systems.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/05310

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01J 3/42; G01N 21/47, 21/25

US CL : 356/73, 326, 402; 250/910

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 356/73, 326, 328, 402; 250/910

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
USPTO APS EAST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	US 6,512,577 B1 (OZANICH) 28 January 2003 (28.01.2003), see entire patent.	1
A	US 6,307,629 B1 (JUNG et al) 23 October 2001 (23.10.2001), see entire patent.	1-4
A	US 6,301,004 B1 (JUNG et al) 09 October 2001 (09.10.2001), see entire patent.	1-4

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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